

20080801.ba v04_n194.bam.20080801

>From ???@??? Fri Aug 1 00:00:53 2008 -0500
Date: Fri, 1 Aug 2008 00:00:13 CST
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 4194
Message-Id: <20080801055710.233B9D52E4@srvr1.theporch.com>

BOATANCHORS Digest 4194

Topics covered in this issue include:

- 1) Re: Suggestions for best CW rig?
by "ChasW3KC" <w3kc@verizon.net>
- 2) Best CW Rig
by "Wilson Lamb" <infomet@embarqmail.com>
- 3) Re: Best CW Rig
by john <johnmb@nc.rr.com>
- 4) Re: Suggestions for best CW rig?
by "Ken" <n5cm@rtconline.com>
- 5) Re: Naval Radio Station HAIKU, Hawaii
by AAFRadio <mike_25-z@aafradio.org>
- 6) Simpson 555 tube tester
by "Al Parker" <anchor@ec.rr.com>
- 7) Audio tomphoolery
by John Sehring <wb0eq@yahoo.com>
- 8) Re: Audio tomphoolery
by spr@earthlink.net
- 9) NASA 50th Anniv. - SB-8b page update
by Rich Post <postr@ohiou.edu>
- 10) Re: Audio tomphoolery
by "Arden Allen" <gumbear@pacbell.net>
- 11) OT: Digital Audiophoolery
by spr@earthlink.net
- 12) Re: Digital Audiophoolery
by "David Stinson" <arc5@ix.netcom.com>
- 13) Re: Digital Audiophoolery
by "RICHARD GEORGE" <k6kwq@msn.com>
- 14) Re: Digital Audiophoolery
by wb3fau@att.net
- 15) Looking for Old Headset
by RICHARD SOLOMON <w1ksz@q.com>
- 16) Re: Looking for Old Headset
by WA5CAB@cs.com
- 17) Re: [Boatanchors] Hallicrafters SX-62 Slipping Dial
by David Hollander <n7rk@cox.net>
- 18) R-390A audio mod ID

by Ralph Parker <rparker@dccnet.com>
19) Re: R-390A audio mod ID
by "Arden Allen" <gumbear@pacbell.net>

Date: Mon, 28 Jul 2008 23:19:43 -0400
From: "ChasW3KC" <w3kc@verizon.net>
Subject: Re: Suggestions for best CW rig?
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "boatanchors" <boatanchors@theporch.com>
Message-id: <000a01c8f12a\$14349550\$2f01a8c0@chas>
MIME-version: 1.0
Content-type: text/plain; format=flowed; charset=iso-8859-1; reply-type=response
Content-transfer-encoding: 7bit

Nice VFO for a BA rig (viking II for example):
<http://www.seboldt.net/k0jd/analogvfo.html>

73 Chas W3KC

Message-ID: <00ba01c8f12b\$cc273b30\$05fea8c0@wilsonspc>
From: "Wilson Lamb" <infomet@embarqmail.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Best CW Rig
Date: Mon, 28 Jul 2008 23:32:50 -0400
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit

I used a couple of Collins 310-Bs for MANY years, both as on the air rigs and as exciters. They had good stability after a short warmup and great keying. One of mine has had a coil turret added to make it 80-10 without opening the top for coil changing. If you can stand staying down in the 40W range, it's fine. I think it could support a 6146 in place of the 2E26 final. The B+ is about 600V.

WL

Message-Id: <6.2.1.2.2.20080729064431.03ea0710@pop-server.nc.rr.com>
Date: Tue, 29 Jul 2008 06:45:12 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: john <johnmb@nc.rr.com>
Subject: Re: Best CW Rig
Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

I have one of these in the Resto queue... 40W s/b fine for ragchewing...! Might be time to move it to the head of the line.

John k5MO

At 11:32 PM 7/28/2008, Wilson Lamb wrote:

>I used a couple of Collins 310-Bs for MANY years, both as on the air rigs
>and as exciters. They had good stability after a short warmup and great
>keying. One of mine has had a coil turret added to make it 80-10 without
>opening the top for coil changing. If you can stand staying down in the
>40W range, it's fine. I think it could support a 6146 in place of the
>2E26 final. The B+ is about 600V.
>WL

Message-ID: <001401c8f182\$9f15aee0\$020fa8c0@KEN>

From: "Ken" <n5cm@rtconline.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Suggestions for best CW rig?

Date: Tue, 29 Jul 2008 06:54:28 -0700

MIME-Version: 1.0

Content-Type: text/plain; charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Hi Art & Gang,

Don't overlook the Central Electronics 100V & 200V.

Excellent CW keying, two oscillators running and output frequency from beating between the two either using the sum or difference.

The 10B and 20A are not bad depending upon the stability of the external VFO. Used both each for many years. Never used the 10A.

Ken N5CM

--

I am using the free version of SPAMfighter for private users.

It has removed 1294 spam emails to date.

Paying users do not have this message in their emails.

Get the free SPAMfighter here: <http://www.spamfighter.com/len>

Message-ID: <488F072A.9070606@aafradio.org>
Date: Tue, 29 Jul 2008 08:03:54 -0400
From: AAFRadio <mike_25-z@aafradio.org>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Naval Radio Station HAIKU, Hawaii
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

There is a good chart of RF attenuation versus frequency at
<http://ecjones.org/physics.html> - works out to about 1 db/ft at 10kHz in
seawater. The problem is the low rate of data transfer at lower
frequencies, of course.

73,
Mike KC4TOS

Jerry Proc wrote:

>VLF signals (3 to 30 KHz) can penetrate water to depths of about 10 feet.

>

>Regards,

>Jerry Proc

>

>

>>From: Robert Nickels <w9ran@oneradio.net>

>>Received: Monday, July 28, 2008, 6:56 PM

>>Jerry Proc wrote:

>>

>>

>>>The URL has no hint as to what to expect.

>>>

>>>

>>So it would seem

>>that the ability to communicate with submerged subs was a

>>very well-kept

>>secret! Presumably the Haiku station was the prototype for

>>today's VLF/ULF communications systems.

>>

>>73, Bob W9RAN

>>

Message-ID: <013a01c8f17c\$744ed020\$6401a8c0@reloaded>
From: "Al Parker" <anchor@ec.rr.com>
To: Old Tube Radios <boatanchors@theporch.com>

Cc: "edgardo castro" <castrobruse@yahoo.es>
Subject: Simpson 555 tube tester
Date: Tue, 29 Jul 2008 09:10:20 -0400
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit

Hi folks,

A DX friend, Edgardo, YS1ECB , has recently come up with a 555 emission type tester, and is looking for any manual info or schematic for it. It's working, but has 2 adjustable pots in it and he'd like to perform any calibration that it might need.

Does anyone happen to be able to help out?

thanks, 73,

Al, W8UT

New Bern, NC

www.boatanchors.org

www.hammarlund.info

"there is nothing -absolutely nothing- half as much worth doing as simply messing about in boats."

Ratty, to Mole

Date: Tue, 29 Jul 2008 09:31:16 -0700 (PDT)
From: John Sehring <wb0eq@yahoo.com>
Subject: Audio tomphoolery
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Message-ID: <319181.30593.qm@web45615.mail.sp1.yahoo.com>

In the old especially of LP's you dealt with just a few millivolts coming out of a quality phone cartridge. Same is true for mics (for music recording).

To get this up to, say, 100 W meant a lot of amplification. Hum & noise would be intrusive. Power supplies had to be suitable for that.

The major criteria for PS's is 1) line rejection (60/120 Hz ripple and all AC line crud/distortion/noise, 2) noise, i.e. the self noise of the power supply, mostly from the regulator scheme, and 3) the internal impedance of the PS, from DC to well above 20 kHz; that includes static and dynamic behavior; yes, that can be illustrated by a impedance vs. frequency plot.

Just hanging big caps on the PS doesn't cut it in some cases. The C's reactance climbs at the lower operating frequencies & is too high to begin with; at higher AF frequencies, self inductance comes into play; and there's always the ESR of the cap, and things like dielectric absorption-generated distortion. So caps must be carefully picked, keeping in mind the non-ideal behavior, which is quite complex and in some cases, highly non-linear. This all began to be rigorously demonstrated in the lab over 25 years ago by people like Walt Jung & Jordon Marsh who are extremely well-respected in industry.

"Active" regulators (containing gain elements, e.g. an amplifier(s)) appear the way to go but must be carefully designed for absolute stability, i.e. no oscillations. PS Z can be two or three orders of magnitude better!

As audio source material (e.g. CD & SACD & DVD) has gotten better, it has peeled back layers to reveal not-now-so-subtle deficiencies in the record & reproduce chains. Those who truly care about advancing the state of the art are cognizant of this.

Lest the assembled multitude thinks that this is overkill, I invite you to consider the design & building of instrumentation amplifiers, including low-level test equipment. You will find exactly the same issues.

I don't wish to waste my time, energy, and money on any sort of tomphoolery! It seems to me, the art of engineering is *quantifying* the various constraints and shortcomings to prioritize what's important and not.

I do realize that I've not talked about RF here!

Soapbox mode OFF

--John WB0EQ

Message-ID: <11493616.1217356793380.JavaMail.root@elwamui-darkeyed.atl.sa.earthlink.net>
Date: Tue, 29 Jul 2008 14:39:53 -0400 (EDT)
From: spr@earthlink.net
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Audio tomphoolery
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 7bit

Hi John,

I deal with instrumentation amplifiers and other preamps, so I am familiar with the issues that you have raised.

For a power amplifier, the circuitry normally rejects power supply ripple by a large amount (80 dB or more) so until you clip the power amp you won't get audible hum. A regulated supply would therefore mostly deal with artifacts that happen during clipping.

Clipping behavior in power amps is very important, but I don't think a little hum in a clipping event is a problem. If you are doing careful listening, you will not permit the amplifier to clip in any case.

The kind of bad clipping behavior that *is* an audible problem is mostly due to instantaneous current limiters, which can change a brief overload to a missing quarter cycle of a low frequency sine wave or do other horrible things to make an otherwise brief and not very significant clipping event grossly audible.

If you have enough safe operating area (sorry, no tube equivalent to this, thank goodness) in the output stage, you don't need the instantaneous limiter but can disconnect the load with a relay a couple of milliseconds later if the overload persists that long.

Regards,

Scott

-----Original Message-----

>From: John Sehring <wb0eq@yahoo.com>

>Sent: Jul 29, 2008 12:31 PM

>To: Old Tube Radios <boatanchors@theporch.com>

>Subject: Audio tomphoolery

>

>In the old especially of LP's you dealt with just a few millivolts coming out of a quality phone cartridge. Same is true for mics (for music recording).

>

>To get this up to, say, 100 W meant a lot of amplification. Hum & noise would be intrusive. Power supplies had to be suitable for that.

>

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>

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cap, and things like dielectric absorption-generated distortion. So caps must be carefully picked, keeping in mind the non-ideal behavior, which is quite complex and in some cases, highly non-linear. This all began to be rigorously demonstrated in the lab over 25 years ago by people like Walt Jung & Jordon Marsh who are extremely well-respected in industry.

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>

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>

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>

>I do realize that I've not talked about RF here!

>

>Soapbox mode OFF

>

>--John WB0EQ

>

>

>

>

>

>

Message-Id: <6.2.1.2.2.20080729165153.042d4f58@oak.cats.ohiou.edu>

Date: Tue, 29 Jul 2008 17:02:38 -0400

To: Old Tube Radios <boatanchors@theporch.com>

From: Rich Post <postr@ohiou.edu>

Subject: NASA 50th Anniv. - SB-8b page update

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

In honor of NASA's 50th anniversary, I have updated the SB-8b Panalyzer page describing how it was used by NASA's 18 telemetry monitoring stations around the world for the Mercury program. Yes, NASA used vacuum tube stuff!

Info at:

<http://tinyurl.com/6jpogw>

(shortcut for:)

<http://oak.cats.ohiou.edu/~postr/bapix/SB8b.htm>

73 de Rich KB8TAD

Message-ID: <003301c8f1d0\$640945c0\$ba9d480c@KB6NAX>

From: "Arden Allen" <gumbear@pacbell.net>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Audio tomphoolery

Date: Tue, 29 Jul 2008 16:11:00 -0700

MIME-Version: 1.0

Content-Type: text/plain;
charset="UTF-8"

Content-Transfer-Encoding: 7bit

> I deal with instrumentation amplifiers and other preamps, so I am familiar with the issues that you have raised.

I have observed the artififacts of clipping in all sorts of amplifiers. Testing clipping characteristics is part of proofing any kind of amplifier. The ideal response to clipping is no response, i.e., the amplifier does not produce a signal of its own to add to the audio upon recovery from clipping. However, as Scott points out, running an amplifier beyond clipping level doesn't make sense unless, as in the case of electric guitar playing, you want the amplifier to become part of the musical instrument instead of just being a sound reinforcer.

What the audiophoolers are doing in their vain attempts to "improve" the art of audio reproduction is to produce an amplifier that in no way can introduce an "undesirable" response to add to the audio. So they spit into their palms, rub their hands together, and work to produce what they think are the answers to the mysteries of imperfect audio. They clamp thier thinking process (such as it is) around simplistic notions and surge ahead. They apply the same methods to their work as do creation scientists. The result is from the ludicrous to the abysmal. I wonder, does God have a BSEE?

Arden Allen
KB6NAX

Message-ID: <25903004.1217398678525.JavaMail.root@mswamui-

chipeau.atl.sa.earthlink.net>
Date: Tue, 29 Jul 2008 23:17:58 -0700 (GMT-07:00)
From: spr@earthlink.net
To: Old Tube Radios <boatanchors@theporch.com>
Subject: OT: Digital Audiophoolery
Mime-Version: 1.0
Content-Type: text/plain; charset=UTF-8
Content-Transfer-Encoding: 7bit

>Check out the reviews of the \$500 Ethernet cable...

'nuff said.

/scott

The reviews of this products are hilarious.

<[http://www.amazon.com/review/product/B000I1X6PM/ref=cm_cr_dp_all_helpful?
%5Fencoding=UTF8&coliid=&showViewpoints=1&colid=&sortBy=bySubmissionDateDescending](http://www.amazon.com/review/product/B000I1X6PM/ref=cm_cr_dp_all_helpful?%5Fencoding=UTF8&coliid=&showViewpoints=1&colid=&sortBy=bySubmissionDateDescending)
><[http://www.amazon.com/review/product/B000I1X6PM/ref=cm_cr_dp_all_helpful?
%5Fencoding=UTF8&coliid=&showViewpoints=1&colid=&sortBy=bySubmissionDateDescending](http://www.amazon.com/review/product/B000I1X6PM/ref=cm_cr_dp_all_helpful?%5Fencoding=UTF8&coliid=&showViewpoints=1&colid=&sortBy=bySubmissionDateDescending)
>

Message-ID: <07FAF5703FFD4FD89BFAD5ED43D07828@boudreaux>
From: "David Stinson" <arc5@ix.netcom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Digital Audiophoolery
Date: Wed, 30 Jul 2008 09:13:53 -0500
MIME-Version: 1.0
Content-Type: text/plain;
 format=flowed;
 charset="UTF-8";
 reply-type=original
Content-Transfer-Encoding: 7bit

Try this one.

http://www.amazon.com/gp/product/B0006VPPPI/ref=cm_cr_asin_lnk

With soooo many deeply, intractibly stupid rich people in the world,
how come I can't get them to send me money?
Ummm.... Maybe I just answered my own question.... >:-0

Message-ID: <BAY103-DAV31B250C06F5A0DC248911F57D0@phx.gbl>
From: "RICHARD GEORGE" <k6kwq@msn.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Digital Audiophoolery
Date: Wed, 30 Jul 2008 07:56:45 -0700
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="-----_NextPart_000_0047_01C8F219.CFEEFF70"

This is a multi-part message in MIME format.

-----_NextPart_000_0047_01C8F219.CFEEFF70
Content-Type: text/plain;
charset="UTF-8"
Content-Transfer-Encoding: quoted-printable

Shucks! and they only have 2 in stock.

K6KWQ Dick
Amps by "MORE POWER"
----- Original Message -----=20
From: David Stinson<mailto:arc5@ix.netcom.com>=20
To: Old Tube Radios<mailto:boatanchors@theporch.com>=20
Sent: Wednesday, July 30, 2008 7:13 AM
Subject: Re: Digital Audiophoolery

Try this one.

=
http://www.amazon.com/gp/product/B0006VPPPI/ref=3Dcm_cr_asin_lnk<http://www.amazon.com/gp/product/B0006VPPPI/ref=3Dcm_cr_asin_lnk>

With soooo many deeply, intractibly stupid rich people in the world,
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-----_NextPart_000_0047_01C8F219.CFEEFF70
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
* ---REMAINDER OF MESSAGE TRUNCATED--- *
* This post contains a forbidden message format *
* (such as an attached file, a v-card, HTML formatting) *
* Mail Lists at theporch.com only accept PLAIN TEXT *
* If your postings display this message your mail program *

* is not set to send PLAIN TEXT ONLY and needs adjusting *

-----=_NextPart_000_0047_01C8F219.CFEEFF70--

From: wb3fau@att.net
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "David Stinson" <arc5@ix.netcom.com>
Subject: Re: Digital Audiophoolery
Date: Wed, 30 Jul 2008 16:17:52 +0000
Message-Id:
<073020081617.13817.489094300007ABB2000035F922243429029B0A02D29B9B0EBF9A0E00CC0D99@att.net>

Sell your toys on Ebay- you may have something that sells for a ridiculous high price.

Message-ID: <BAY130-W428BE2E1D2ED71B04B4D6AE07D0@phx.gbl>
Content-Type: multipart/alternative;
boundary="_3ad19c86-156f-4eac-9d60-1dfce3796f4c_"
From: RICHARD SOLOMON <w1ks@q.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Looking for Old Headset
Date: Wed, 30 Jul 2008 23:40:39 +0000
MIME-Version: 1.0

--_3ad19c86-156f-4eac-9d60-1dfce3796f4c_
Content-Type: text/plain; charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable

I need a headset for the Instructograph I am restoring. Something along the lines of what you see old telegraphers using. I remember seeing some that had two pins on the end instead of a plug.

Anyone have something like that ?

=20

Thanks=2C Dick=2C W1KSZ=

--_3ad19c86-156f-4eac-9d60-1dfce3796f4c_
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

--_3ad19c86-156f-4eac-9d60-1dfce3796f4c_--

From: WA5CAB@cs.com
Message-ID: <c65.2ad2a830.35c2a24a@cs.com>
Date: Thu, 31 Jul 2008 01:06:18 EDT
Subject: Re: Looking for Old Headset
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_c65.2ad2a830.35c2a24a_boundary"

--part1_c65.2ad2a830.35c2a24a_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Dick,

What impedance do you need? 500-600 or 8K or above? The standard WW-II headset used with all of the code training sets was the HS-16 or HS-16-A, around 520 ohms with two pin tips instead of the PL-55. During the Vietnam War, the Villages Radio program built a lot of these, differing from the WW-II vintage only in that the webbing sewn over the head-band wires was OD instead of khaki.

I have around two dozen of them @ \$17.50 plus shipping. Several other list members probably still have a bunch of them as well.

In a message dated 7/30/2008 10:33:53 PM Central Daylight Time, w1ksz@q.com writes:

> I need a headset for the Instructograph I am restoring. Something along
> the lines of what you see old telegraphers using. I remember seeing some
> that had two pins on the end instead of a plug.
> Anyone have something like that ?

Robert Downs - Houston
wa5cab dot com (Web Store)
MVPA 9480

--part1_c65.2ad2a830.35c2a24a_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * *
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* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting *
* * * * *

--part1_c65.2ad2a830.35c2a24a_boundary--

Message-ID: <489228B4.7000504@cox.net>
Date: Thu, 31 Jul 2008 14:03:48 -0700
From: David Hollander <n7rk@cox.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Carl <km1h@jeremy.mv.com>, HallicraftersRadios@yahoogroups.com,
BOATANCHORS <boatanchors@mailman.qth.net>,
Old Tube Radios <boatanchors@theporch.com>,
"BOATANCHORS@LISTSERV.TEMPE.GOV" <BOATANCHORS@LISTS.TEMPE.GOV>
Subject: Re: [Boatanchors] Hallicrafters SX-62 Slipping Dial
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Duane - The problem is not the dial cord. It is with gears. My model has the gear assembly driving the main tuning capacitor.

For slipping dial cords, I use violin bow resin.

Dave N7RK

--

Dave N7RK Boatanchors Home Page: <http://members.cox.net/n7rk>
Phoenix, Arizona *DXCC Honor Roll* *WAZ#22 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor and Antique Radio Collector

Message-Id: <3.0.6.32.20080731201757.00b465d8@pop3.dccnet.com>
Date: Thu, 31 Jul 2008 20:17:57 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Ralph Parker <rparker@dccnet.com>
Subject: R-390A audio mod ID
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi Gang:

I took my R-390a off the 'standby' shelf beside the Ranger and had a look around before I fired it up - it's been a couple of years.

The audio module has been modified - a pair of 6AQ5s has been added, with a new output xformer for 8 ohm output. Research via my existing CD/files and via Google has not turned up any info. It appears to be almost identical to the KD0HG mod in ER #42, which uses a 6360. Perhaps a PO didn't have the 6360. It DOES sound pretty good.

Any hints?

VE7XF

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To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: R-390A audio mod ID
Date: Thu, 31 Jul 2008 21:31:47 -0700
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Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

>The audio module has been modified - a pair of 6AQ5s has been added,
with a
> new output xformer for 8 ohm output.

I have thought that the two 6AK6's, tied in parallel would be sufficient to drive a 5000 ohm output tranformer primary. The line output can be driven by the 12AU7. Who needs 10 watts of audio power for a receiver?

Arden Allen
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End of BOATANCHORS Digest 4194
